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ABSTRACT OF THE DISCLOSURE

A digitally implemented timing recovery circuit for recovering a clock signal from an input bit stream. The recovery circuit comprising an edge detector for detecting a transition from "0" to "1" or "1" to "0" in the input bit stream, a phase counter having a plurality of registers indicative of the phase counter transition state, and a loop counter having a plurality of registers indicative of the loop counter transition state. When the phase counter reaches a particular transition state, a recovered clock pulse is enabled. The phase counter is preferably non-linear to optimize the circuit.

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